

eRD17 – The Endgame

(BeAGLE: A Tool to Refine Detector Requirements for eA)

Discussion points:

What is still needed to finish the four "Benchmark Channels"?

What else is needed for:

"IR optimization through project baselining (CD2)" in Sept. 2022?
Or more practically through Sept. 2021?

First two of four benchmark channels

1) Implement SRC using GCF+BeAGLE

Part of contract w/ BNL: ~6 weeks from now.

2) Fix basic straightforward problems with $e+^3\text{He}$, e.g.

- * Conserve 4-momentum.
- * Use best available nucleon mom. dists. (w/ Kong)
- * Don't crash when proton is struck.
- * Ignore difficult open-ended issues like 2-body breakup (deuteron production).

3 + 4 + What else?

3) J/ψ from $e+Pb$ diffractive

Finish Wan et al. Paper

4) J/ψ from $e+D$ diffractive

Done?

Or Kong implements "off-shell structure functions"?
– as we suggested?

What else is needed for:

"IR optimization through project baselining (CD2)" in
Sept. 2022?

What can we accomplish by Sept. 2021?